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DIVISION OF
OIL, GAS & MINING

DAMES & MOORE

SALT LAKE CITY, UTAH

JOB NO. 19245-001-31

SEPTEMBER 19, 1989

NOTICE OF INTENT TO AMEND MINING OPERATIONS
TINTIC PROJECT
FOR
NORTH LILY MINING COMPANY

Dames & Moore



Public File m/023/0007 Date 9/19/1989
Record #0001
File ☒ Expandable Other _____
☒ Text pages _____ 8 1/2 X 11 Map _____
_____ 11X17 Map _____ Large Maps _____

FOR DOGM USE ONLY:

File #: (M/S) _____/_____-89()
Approved: (mm/dd/yy) _____/_____
Bond Adjustment: (\$) _____

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

NOTICE OF INTENTION TO REVISE MINING OPERATIONS

When an operator intends to revise a mining operation, a **Notice of Intention to Revise Mining Operations** shall be filed with the Division. The notice must include all information, concerning the revision, that would have been required if it had been included in the original Notice of Intention (NOI). Ideally, the revision application should be a "stand-alone" document and include all information necessary to conduct a complete review.

"REVISION" means a **significant change** to the approved Notice of Intention to Conduct Mining Operations, which will increase the amount of land affected or alter the location and type of onsite surface facilities such that the nature of the reclamation plan will differ substantially from the approved Notice of Intention. Revisions require public notice and may require approval by the Board of Oil, Gas & Mining, if a change to the amount and/or form of the reclamation surety is necessary.

"AMENDMENT" is an **insignificant change** to the approved Notice of Intention. An amendment requires Division approval, but does not require public notice.

The Division will determine whether a request for change is significant or insignificant on an individual case-by-case basis.

PLEASE NOTE: When applicable, reference to previously approved information contained in the original NOI can be used (identify volume #'s, section, page #, plate/map #'s, & date of submittal). If possible, please attach appropriate copies of the referenced material as part of the application for revision.

Where possible, please format the application to revise mining operations (e.g., text, maps, tables, figures, etc.) to allow direct insertion into the original NOI as replacement pages, or as a separate addendum to the approved NOI.

The operator is encouraged to use this form as a guide only. Please use extra sheets as necessary to complete each section that follows.

The following information must be included as part of the application to revise mining operations:

I. GENERAL INFORMATION (Rule R613-004-104)

1. Name of Operator/Applicant: North Lily Mining Company
2. Name of Company/Corporation: North Lily Mining Company
3. Address: P.O. Box 421
Eureka, Utah 84628
4. Phone: (801) 433-6804
5. Name of Mine/Project: Tintic Project
6. Previously Assigned File Number: (M / ~~x~~ S) / 023 / 007
*from original Notice of Intention (NOI)
7. Location of Proposed Activities:
COUNTY HEAP EXPANSION Juab MINE Juab County
TOWNSHIP 10 S, RANGE 3 W, T10S, R2W
SECTION(S) SE $\frac{1}{4}$ of NE $\frac{1}{4}$ of Sect. 35 (Identify to 1/4, 1/4 section) N $\frac{1}{2}$ of NW $\frac{1}{4}$ of Sect. 30
8. Ownership of Land Surface:
Private (Fee) X Owners Name(s): North Lily Mining Company
(Private) _____
State of Utah _____ Public Domain (BLM) _____ National Forest (USFS) _____
9. Ownership of Minerals:
Private (Fee) X Owners Names(s): North Lily Mining Company
(Private) _____
State of Utah _____ Public Domain (BLM) _____ National Forest (USFS) _____
10. Utah Mining Claim Number(s) MAMMOTH MINE DUMP: Pelican #271; Burleigh #179; Steel #6843; Harkness #156; and Juno #3747
TINTIC TAILINGS PILE: Described in original application.
11. Utah State Lease Numbers(s) _____

II. MAPS, DRAWINGS & PHOTOGRAPHS (Rule R613-004-105)

Appropriate maps, drawings, plates, etc. should be provided that are pertinent to the revision, or amendment of mining operations. Please provide a revised map outlining the previously approved and the new proposed disturbed area boundaries. These materials should be prepared according to the requirements of Rule R613-004-105.

List map numbers or appendices used for this section: Plate 19245-001-031-4
19245-001-031-5
Appendix

III. OPERATION PLAN (Rule R613-004-106)

Provide a narrative description, referencing any appropriate attached maps or drawings, of the pertinent details of the proposed change(s) in the operating plan. Specific details which are different from those described in the original approved NOI should be included. Identify additional proposed surface disturbance. Include the total number of acres to be affected by the revision or amendment. All appropriate information requirements as outlined under Rule R613-004-106 must be addressed in the application.

See Appendix

IV. IMPACT ASSESSMENT (Rule R613-004-109)

Please provide information as required under Rule R613-004-109 regarding projected potential surface and/or subsurface impacts which may be associated with the proposed change(s) in mining operations.

See Appendix

V. RECLAMATION PLAN (Rule R613-004-110)

Describe how you intend to stabilize the disturbed areas upon cessation of operations. This includes backfilling excavations, grading, sloping or contouring, permanent stabilization of slopes or roads, permanent closure of roads, removal of structures and improvements, etc. Provide cross section of the proposed final contour of the land after reclamation.

Please outline any proposed changes to the originally approved reclamation plan. Appropriate sections of Rule R613-004-110 must be addressed as they may apply to the proposed change(s) in mining operations.

See Appendix

VI. VARIANCE (Rule R613-004-112)

Please identify any requests for variance from the requirements of rules R613-004-107, -108, or -111. A narrative justification must also be included for each variance request. A discussion of any alternate methods or other mitigating measures should be included, if applicable.

See Appendix

VII. SURETY (Rule 613-004-113)

Reclamation Surety:

Indicate whether the proposed activities will change the amount of work required to reclaim the minesite. If significant changes will result, then an itemized reclamation cost estimate should be provided (and attached) with direct reference to the specifics of the proposed change(s). This information will be used to assist the Division in determining any reclamation surety adjustments required for the operation.

See Appendix

VIII. SIGNATURE REQUIREMENT

The application for permit change must include a section similar to the following example:

I hereby certify that the foregoing is true and correct.



Signature of Authorized Officer/Representative:

Grant A. Pinkerton

Name (Typed or Print):

General Manager

Title of Authorized Officer/Representative:

Date: September 19, 1989

MN63/41-45

NOTICE OF INTENTION TO AMEND MINING OPERATIONS

APPENDIX TO FORM MR-REV (Revised 8/89)

III. OPERATION PLAN (Rule R613-004-106)

North Lily Mining Company (NLMC) proposes to amend the existing mining application (Project File No. M/023/007). In the original construction permit NLMC constructed a heap leach facility including a heap leach pad, a process plant and ponds. The heap ore material was taken from an abandoned tailings disposal area just north of the plant area. During the heap leaching operations, the existing tailings pile is being removed and the ground restored to its approximate original pre-mining condition. The intent of this amendment is to increase the size of the proposed heap leach by removing material from an additional source, namely, the Mammoth Mine Dump which is located east of the old Mammoth townsite. The dump site is shown on the Vicinity Map on Drawing 5. It is proposed that the existing heap leach pad be increased from a maximum height of 35 feet to a maximum height of 50 feet and that the size of the pad be increased by extending it approximately 300 feet to the south. This will increase the footprint of the pad by approximately 4.1 acres. In the process of moving the Mammoth Dump ore onto the heap area, the ore material will be removed from the dump area and the area will be restored to its pre-mining condition with respect to topography and vegetation. The material will be moved by truck from the dump to the leach area on existing private roads with minor modifications.

The clay pad liner borrow area will also be reclaimed by sloping the borrow area to drain, reshaping it to maximum slopes of 3:1, covering it with topsoil, and reseeding until vegetation is restored to State requirements.

IV. IMPACT ASSESSMENT (Rule R613-004-109)

Impacts on the overall project as a result of the amended changes will be minor. The area of surface disturbance in the heap pad area will be increased by approximately 4.1 acres as a result of the construction of the heap leach pad, perimeter berms, and surface water diversion feature. This disturbed

area is within the original project boundary as described in the original application. Much of this new area has previously been disturbed because it was a home site for many years. In addition, the clay borrow area will disturb approximately 2.6 acres west of Highway 6. This area is presently range land.

The overall impact of removal of the Mammoth Mine Dump material will be to restore this area to its original pre-mining state. Material will be removed to the original pre-mining ground surface. The original topsoil and organic matter is already in place at the present time and can be used for growth media during reseeding operations. The soils are described as having good drainage and infiltration characteristics. The restoration will have little, if any, impact on ground water conditions or air quality, except for a brief increase in dust during the construction period.

V. RECLAMATION PLAN (Rule R613-004-110)

The heap leach area will be stabilized as described in the original application at the cessation of operations. In summary, following cessation of operations the heap leach pad area will be neutralized by sprinkling a neutralizing leach on the heap until monitoring indicates neutralization of the heap pile material. Following this, the operational 2:1 slopes will be flattened to 3:1 by pushing the material up toward the center of the heap pile. The pile will be contoured to simulate natural surface topography. Stockpiled topsoil will then be placed over the pile and seeded. Roads will be closed and stabilized, and all structures will be removed as well as all other improvements. A cross-section of the proposed final heap leach pile in both plan and section are shown on Drawing 5.

The mine dump will be reclaimed by removing the dump material, discing the in-place topsoil, and reseeding with approved seed mixtures as described in the original application. The present and reclaimed mine dump area is shown in plan and section on Drawing 6.

VI. VARIANCE (Rule R613-004-112)

It is not intended that any variances will be necessary as part of this amended plan.

VII. SURETY (Rule 613-004-113)

The proposed amended activities will increase the amount of earthwork and revegetation to reclaim the overall site by approximately 22 percent. This will include performing the additional neutralization, heap leach resloping, topsoil placement, and reseeding activities. Also, the area at the Mammoth Mine Dump site will require topsoil preparation and reseeding, which will increase these activities over an area of approximately six acres.

The estimated cost of this additional reclamation is shown on the following page.

Estimated Cost For Reclamation of Amended Area

Mammoth Dump Area

Final Grading/Drainage

Grader 24 hrs @ \$45/hr ----- \$ 1,080

Revegetation

Materials 6 ac @ \$285 = ----- 1,710

Contractor 6 @ \$550 = ----- 3,300

Subtotal: \$ 6,090

Heap Site

Regrading to 3:1

Dozer 27 @ \$50 = ----- \$ 1,350

Grader 19 @ \$45 = ----- 855

Backhoe 8 @ \$35 = ----- 280

Topsoil Placement - 4,440 cu yds @ \$1.25/yd ----- 5,550

Revegetation

Materials - 4.1 acres @ \$285 ----- 1,168

Contractor - 4.1 acres @ \$550 ----- 2,255

Subtotal: \$11,458

Borrow Area

Regrading

Dozer - 17 @ \$50 ----- \$ 850

Grader - 12 @ \$45 ----- 540

Revegetation

Materials - 2.6 ac @ \$285 ----- \$ 741

Contractor - 2.6 ac @ \$550 ----- 1,430

Subtotal: \$ 3,561

Total: \$21,109

10% Contingency: 2,111

Add 2% Compounded Annually: 940

Grand Total: \$24,160

*includes
operator*

Thus, the cost for the amended reclamation program is estimated at \$24,160. At the time of acceptance of this amendment we will either submit to Oil, Gas and Mining a bond of this value or, if acceptable, proof that at least an equal amount of reclamation work on the Tintic Tailings Dump Site has been accomplished.